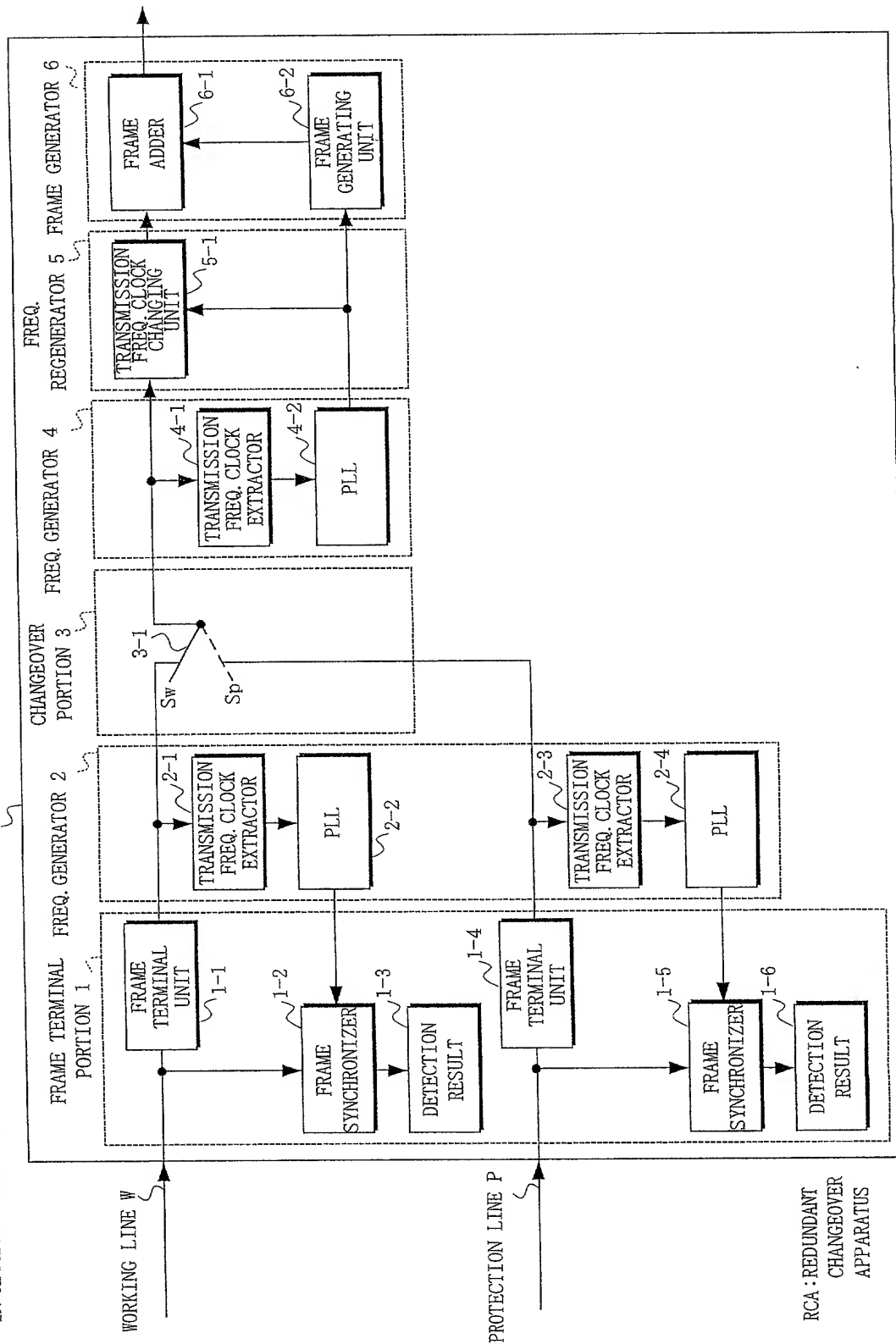


IN-APPARATUS ASYNCHRONOUS RCA (RELAYING TYPE) 40a



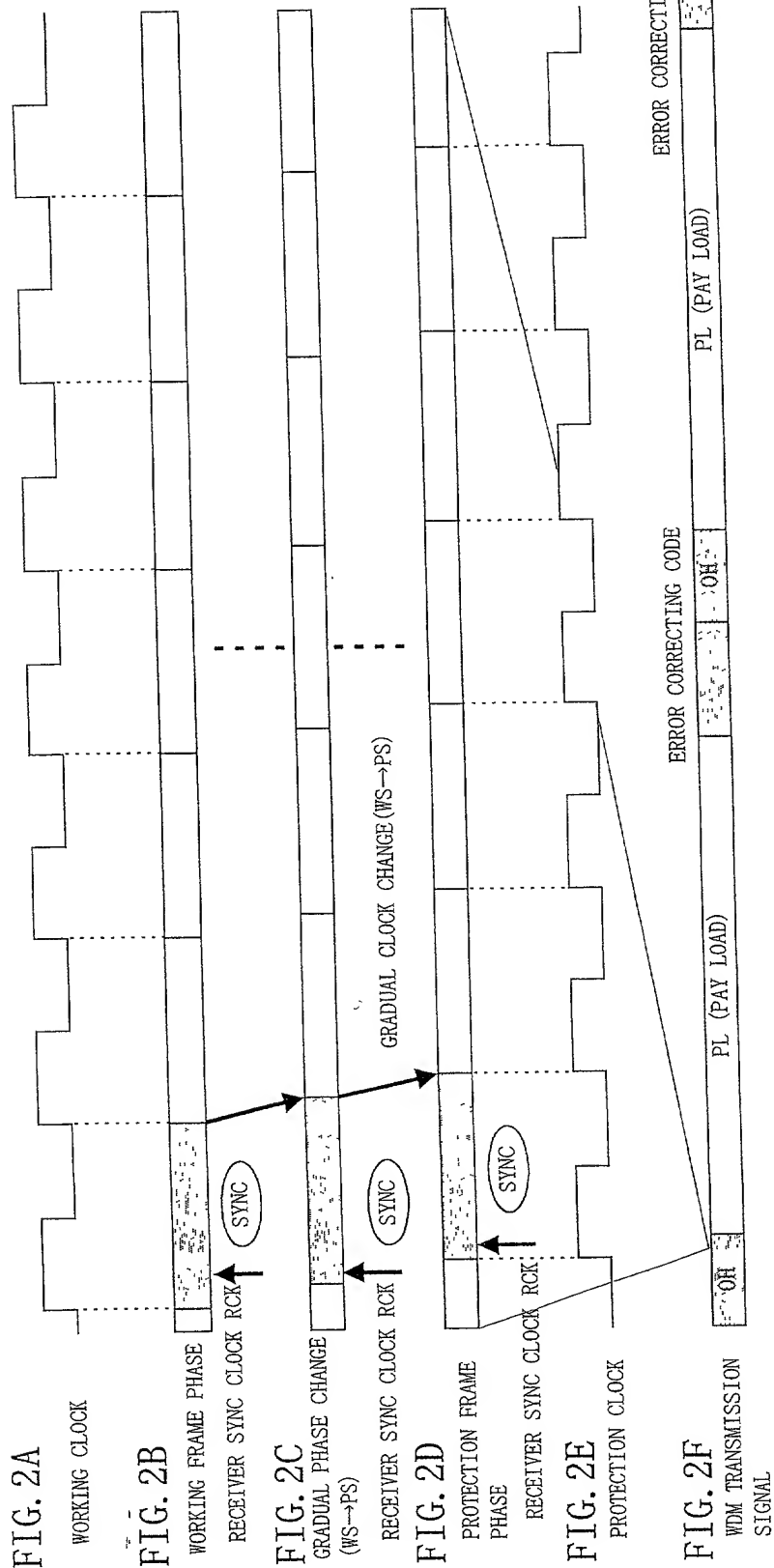
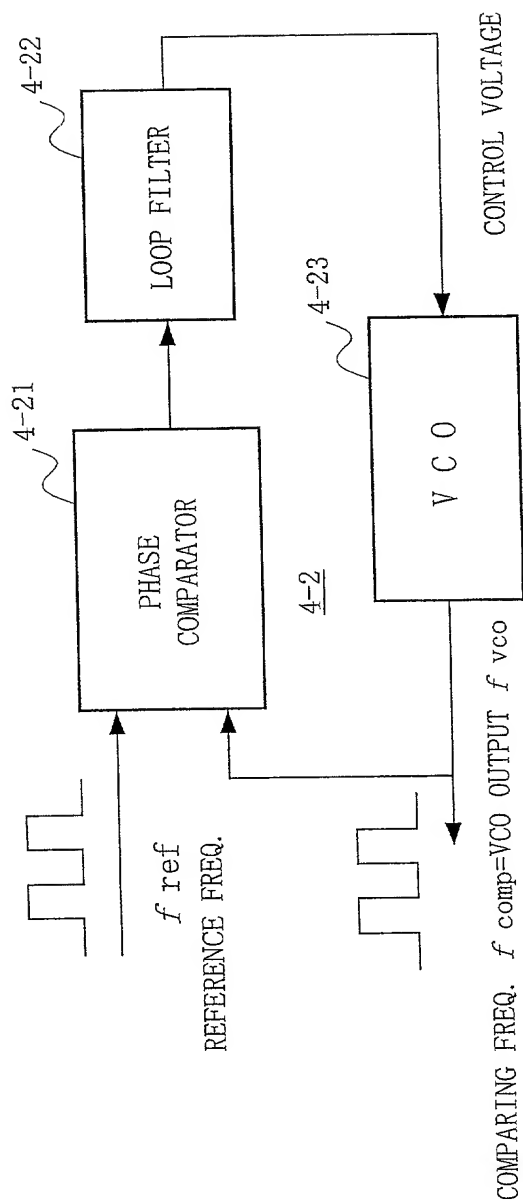


FIG. 3



IN-APPARATUS ASYNCHRONOUS RCA (DROPPING TYPE) 40b

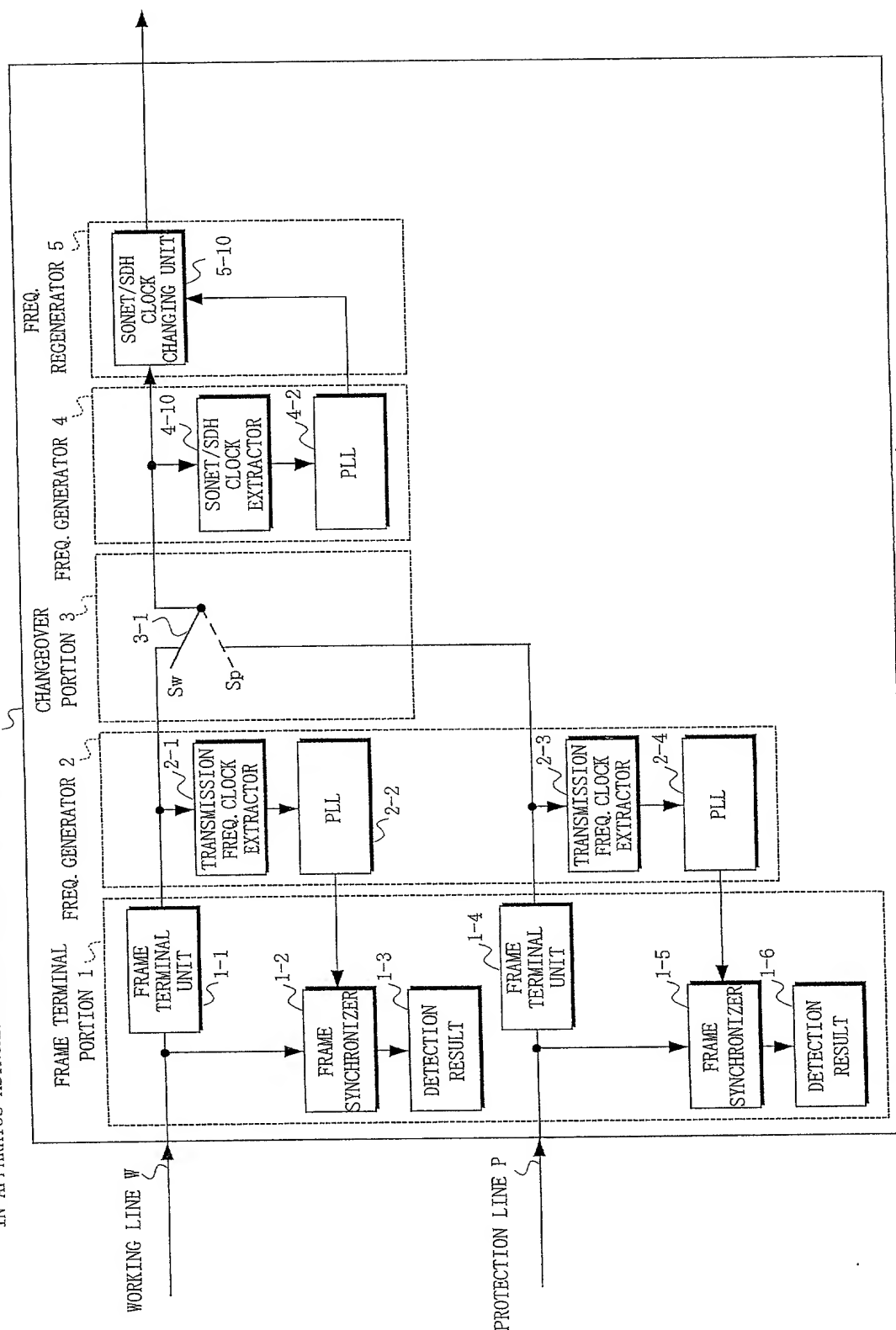


FIG. 5

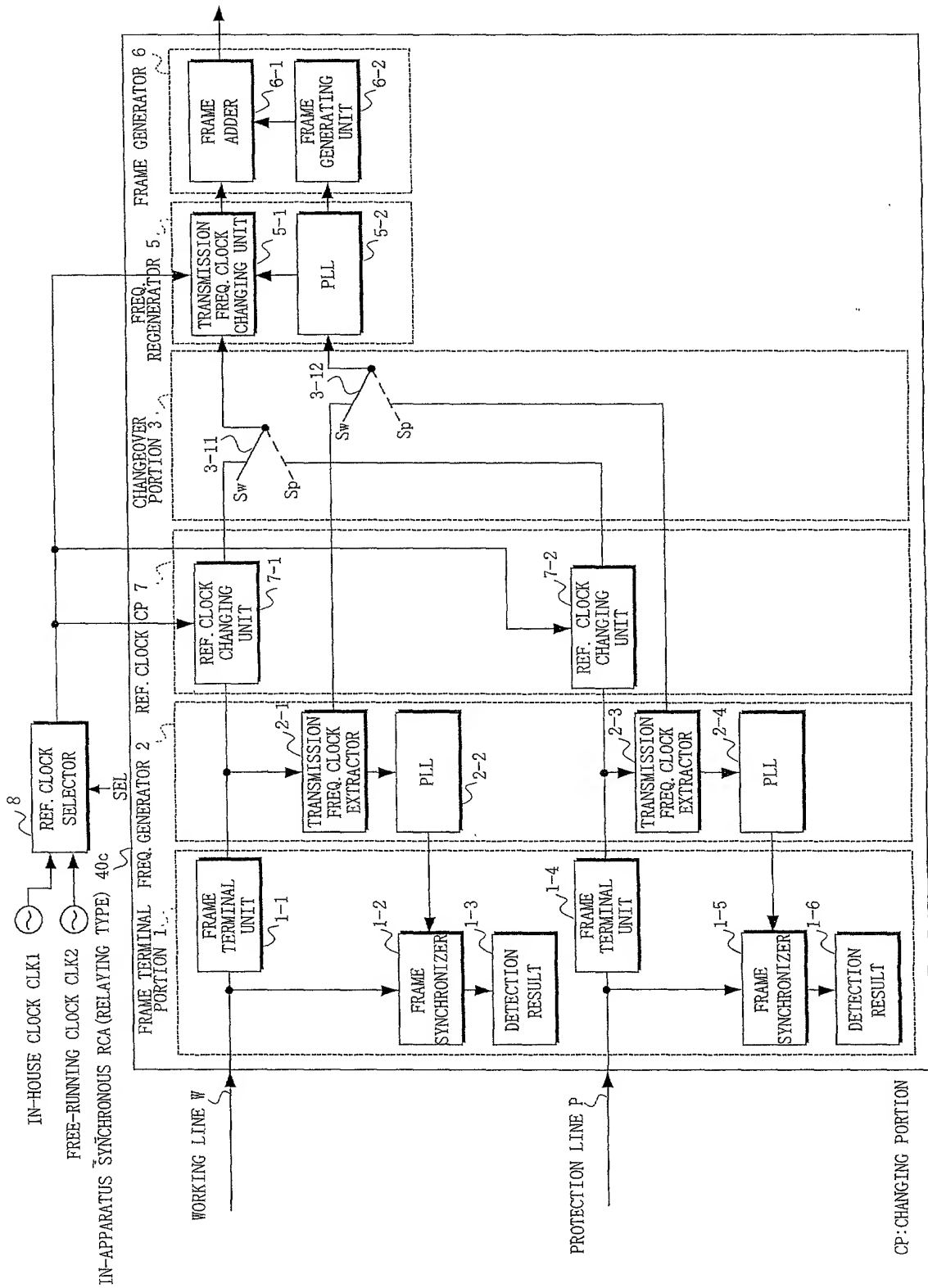
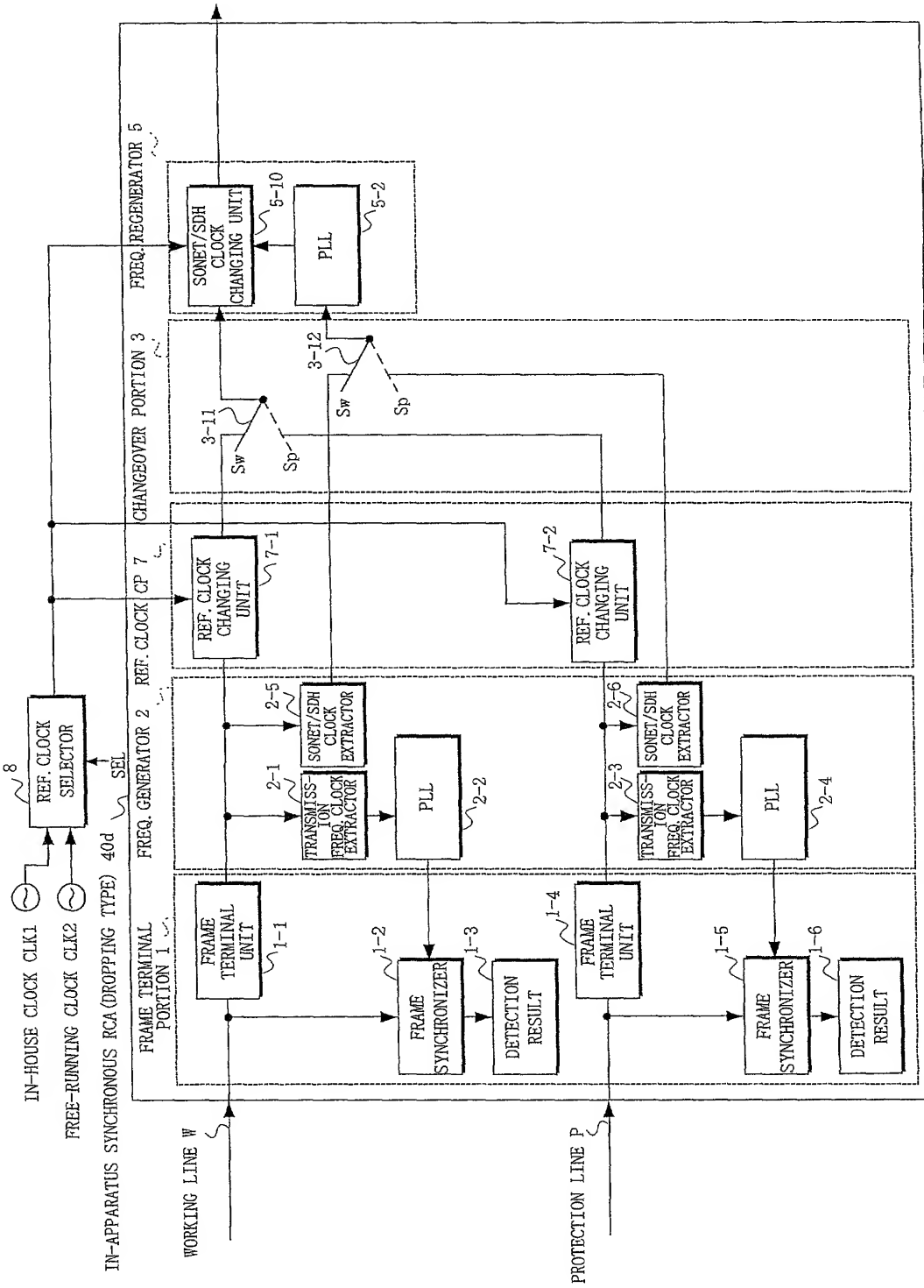


FIG. 6



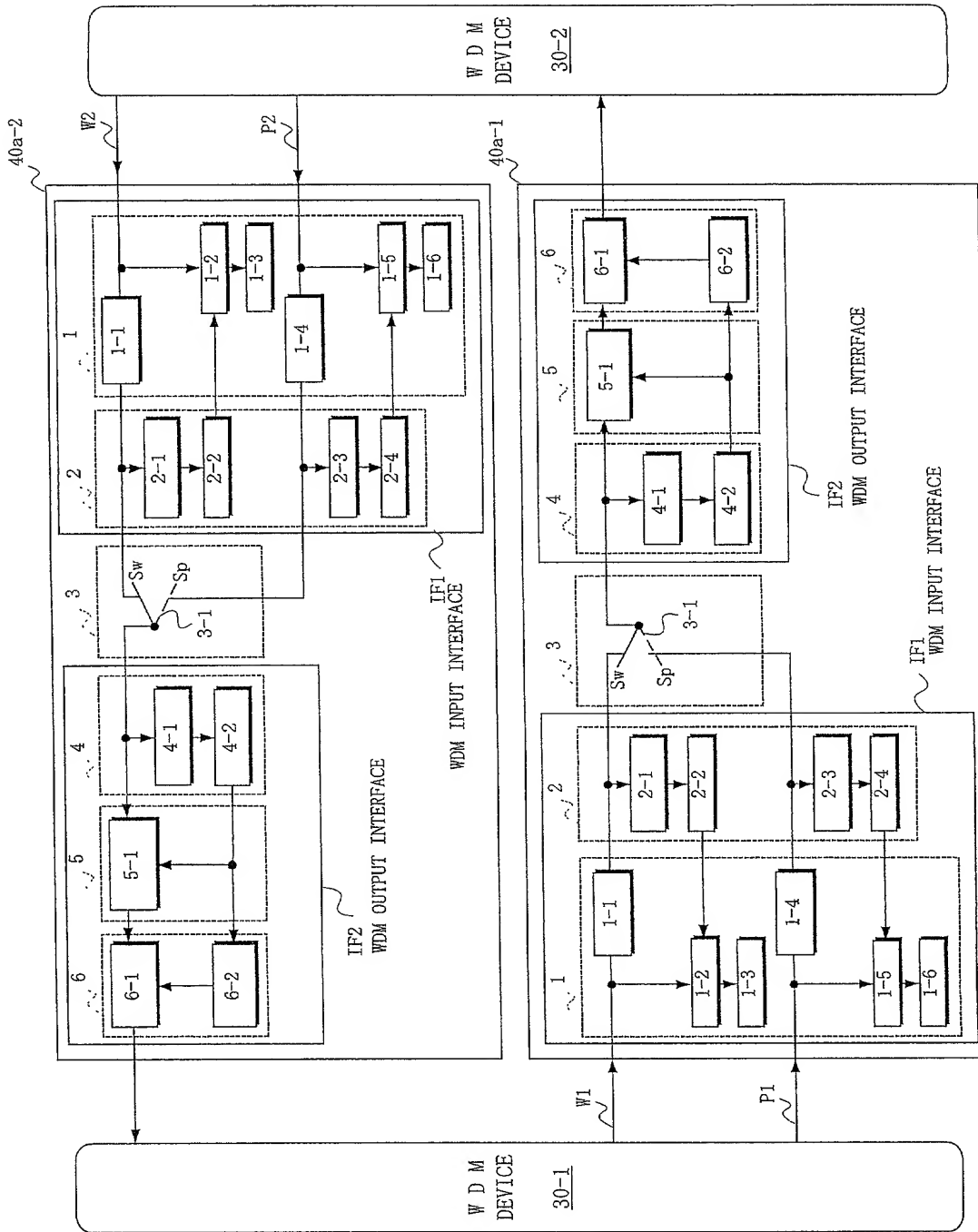


FIG. 8

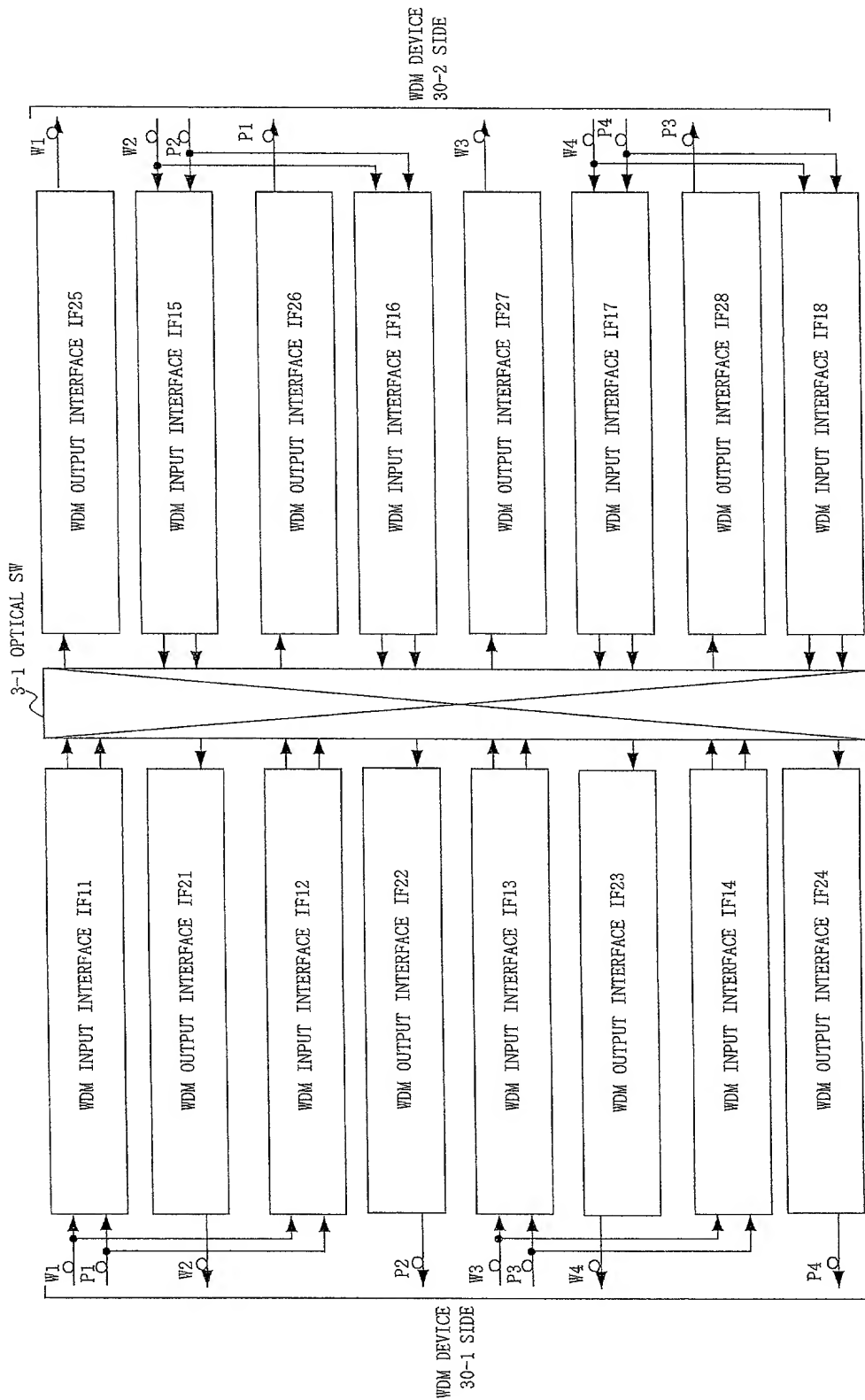


FIG. 9 is a block diagram of a SONET/SDH dropping interface. The diagram shows a WDM Device 30 connected to a SONET/SDH Trans-Mission Device 11. The WDM Device 30 includes a SONET/SDH Dropping Interface 40b-1. The dropping interface 40b-1 is divided into two main sections: 40b-1-1 and 40b-1-2. Section 40b-1-1 contains a SONET/SDH Dropping Interface 40b-1-1-1, which is further divided into two sub-sections: 40b-1-1-1-1 and 40b-1-1-1-2. Section 40b-1-2 contains a SONET/SDH Dropping Interface 40b-1-2-1, which is further divided into two sub-sections: 40b-1-2-1-1 and 40b-1-2-1-2. The SONET/SDH Trans-Mission Device 11 is connected to the WDM Device 30 via a SONET/SDH Dropping Interface 40b-2. The dropping interface 40b-2 is divided into two main sections: 40b-2-1 and 40b-2-2. Section 40b-2-1 contains a SONET/SDH Dropping Interface 40b-2-1-1, which is further divided into two sub-sections: 40b-2-1-1-1 and 40b-2-1-1-2. Section 40b-2-2 contains a SONET/SDH Dropping Interface 40b-2-2-1, which is further divided into two sub-sections: 40b-2-2-1-1 and 40b-2-2-1-2. The SONET/SDH Trans-Mission Device 11 is connected to the WDM Device 30 via a SONET/SDH Dropping Interface 40b-2. The dropping interface 40b-2 is divided into two main sections: 40b-2-1 and 40b-2-2. Section 40b-2-1 contains a SONET/SDH Dropping Interface 40b-2-1-1, which is further divided into two sub-sections: 40b-2-1-1-1 and 40b-2-1-1-2. Section 40b-2-2 contains a SONET/SDH Dropping Interface 40b-2-2-1, which is further divided into two sub-sections: 40b-2-2-1-1 and 40b-2-2-1-2.

FIG. 9

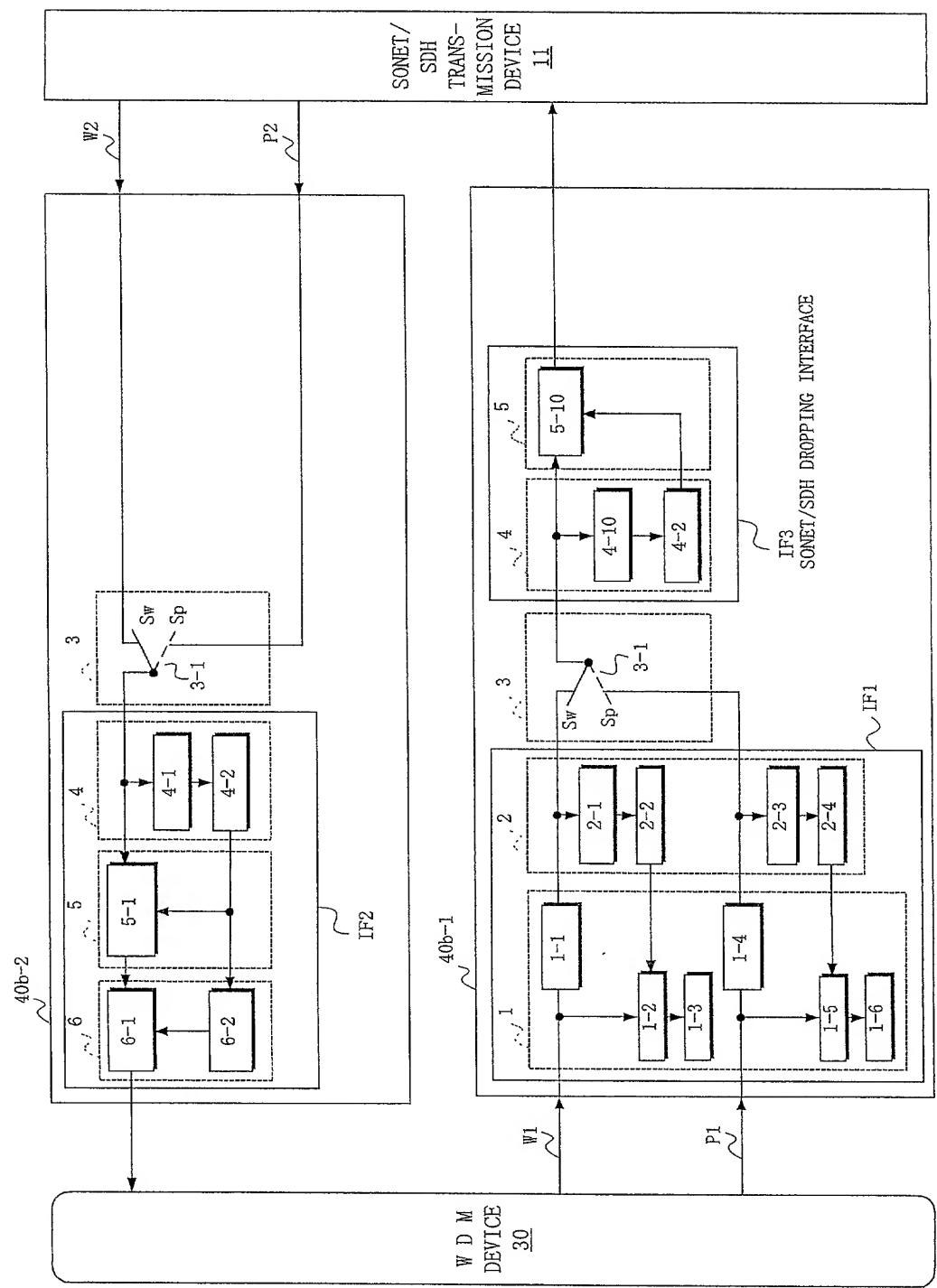


FIG. 10

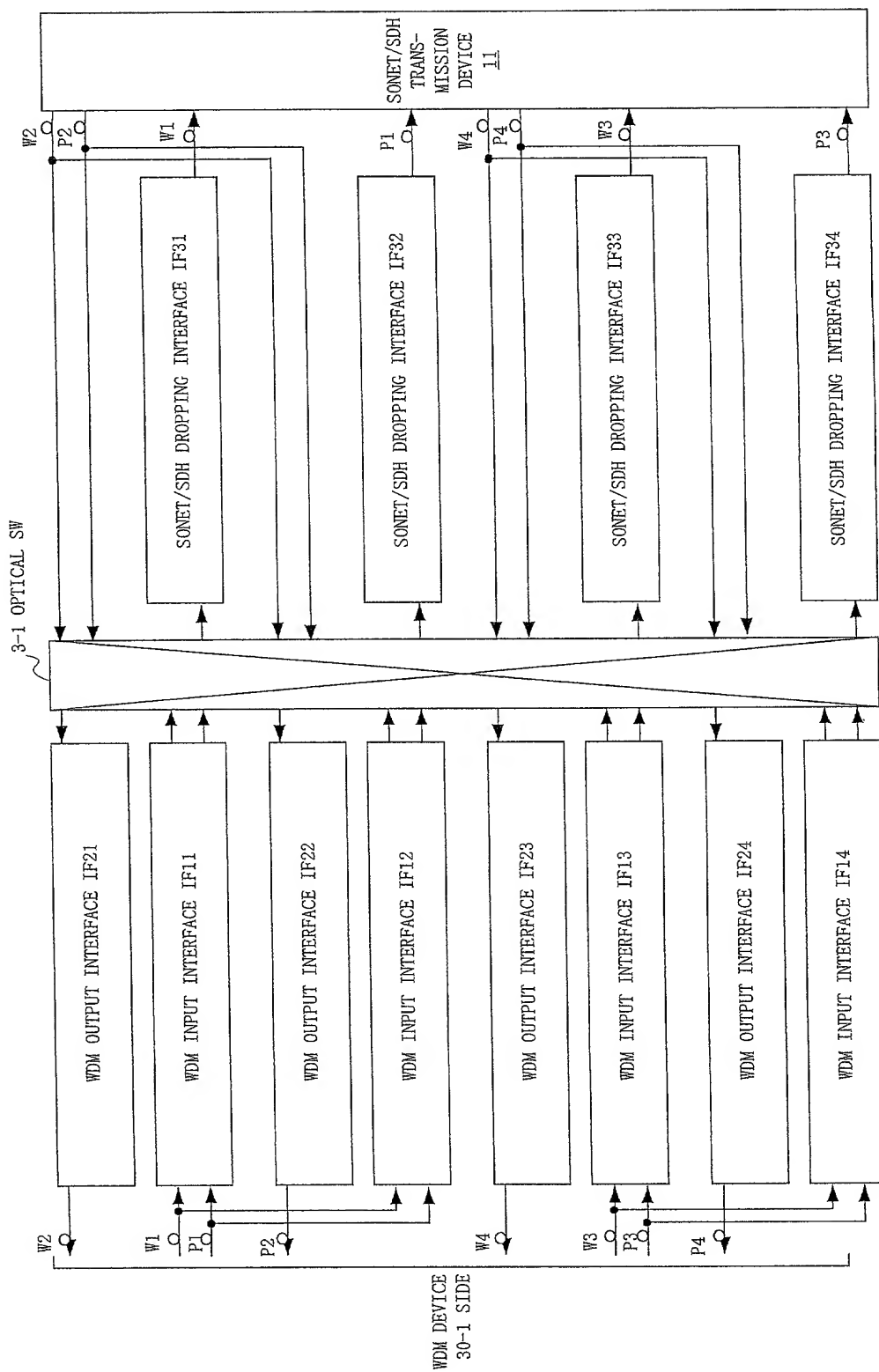


FIG. 12

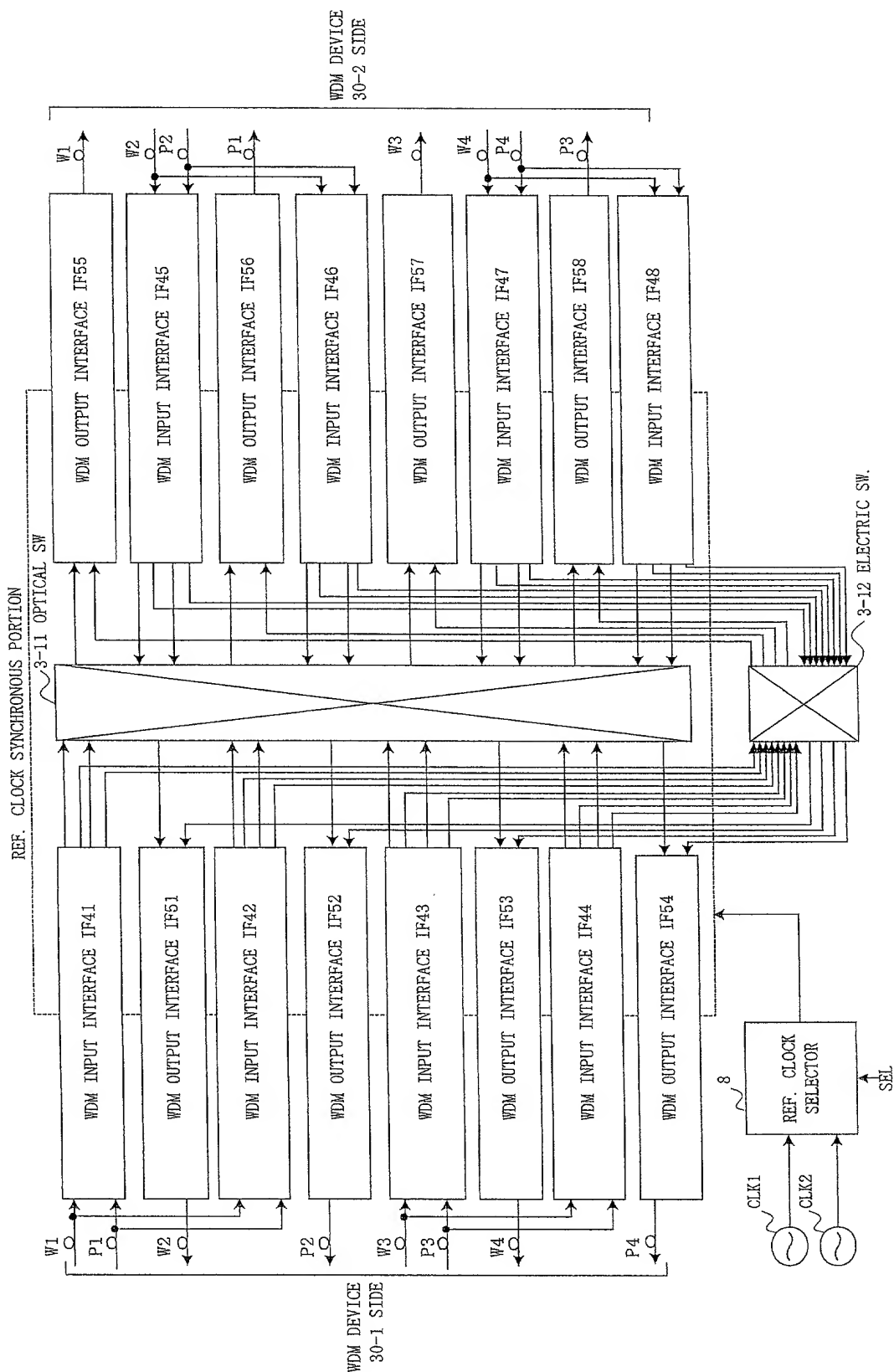
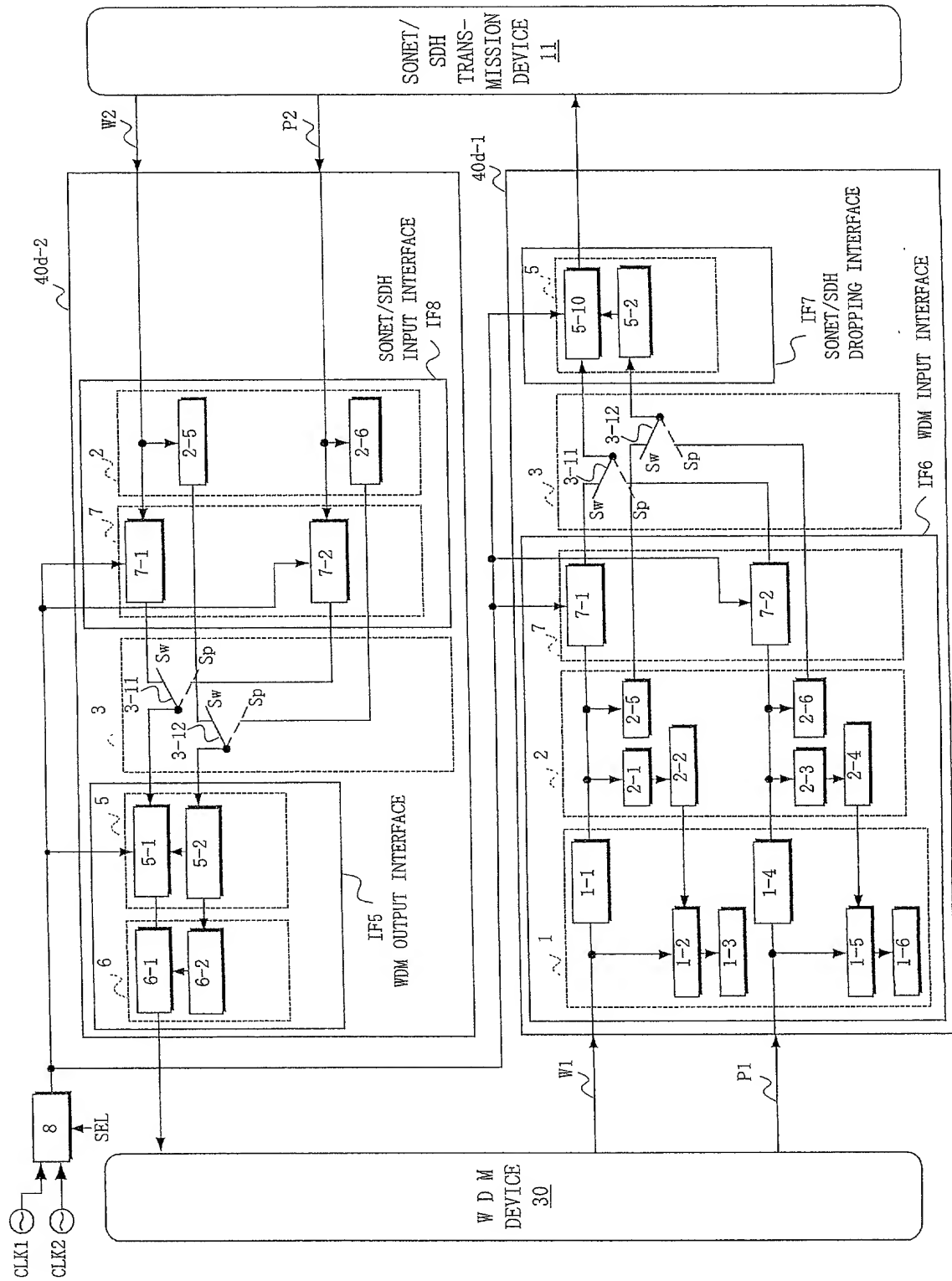


FIG. 13



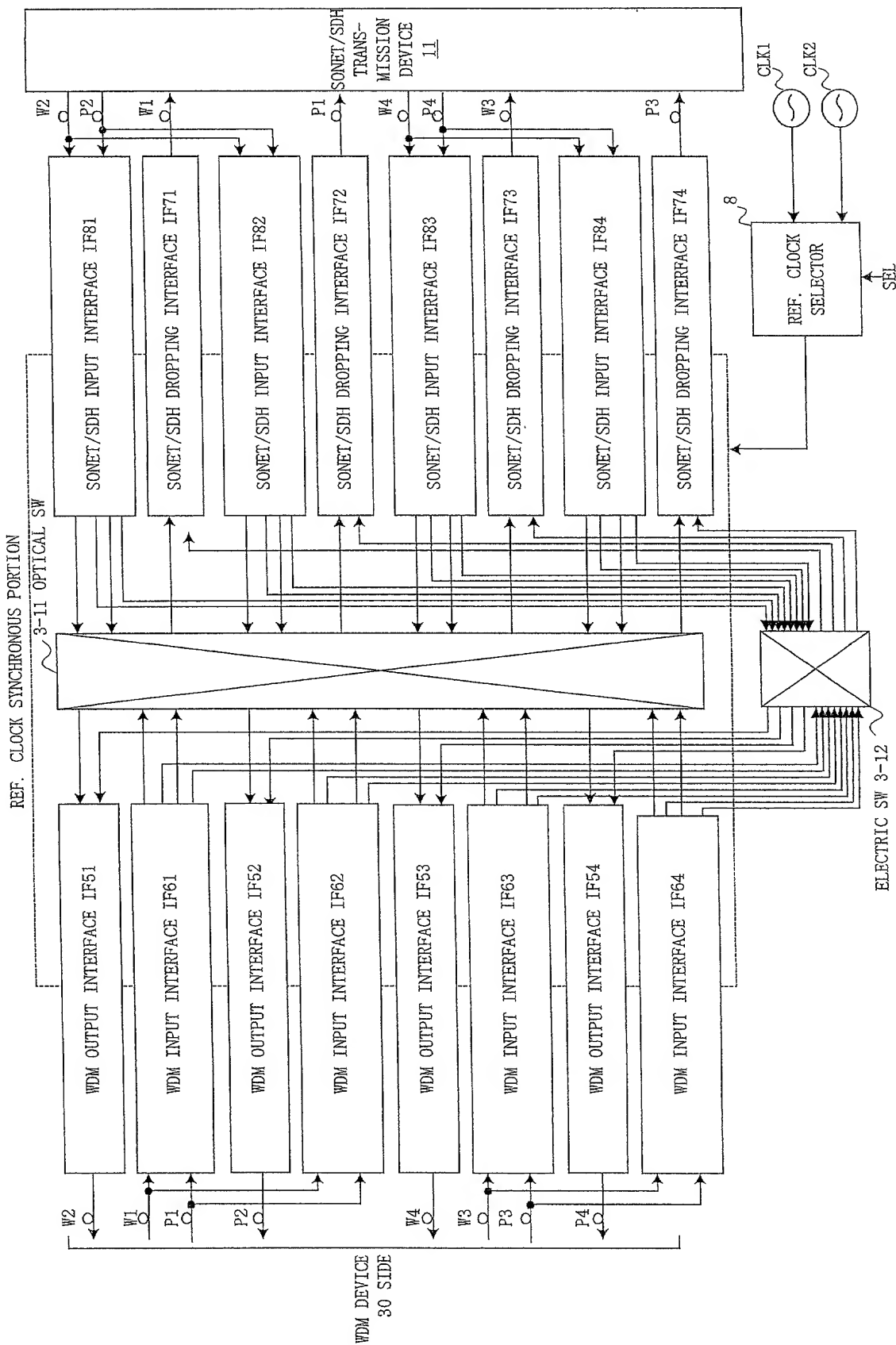
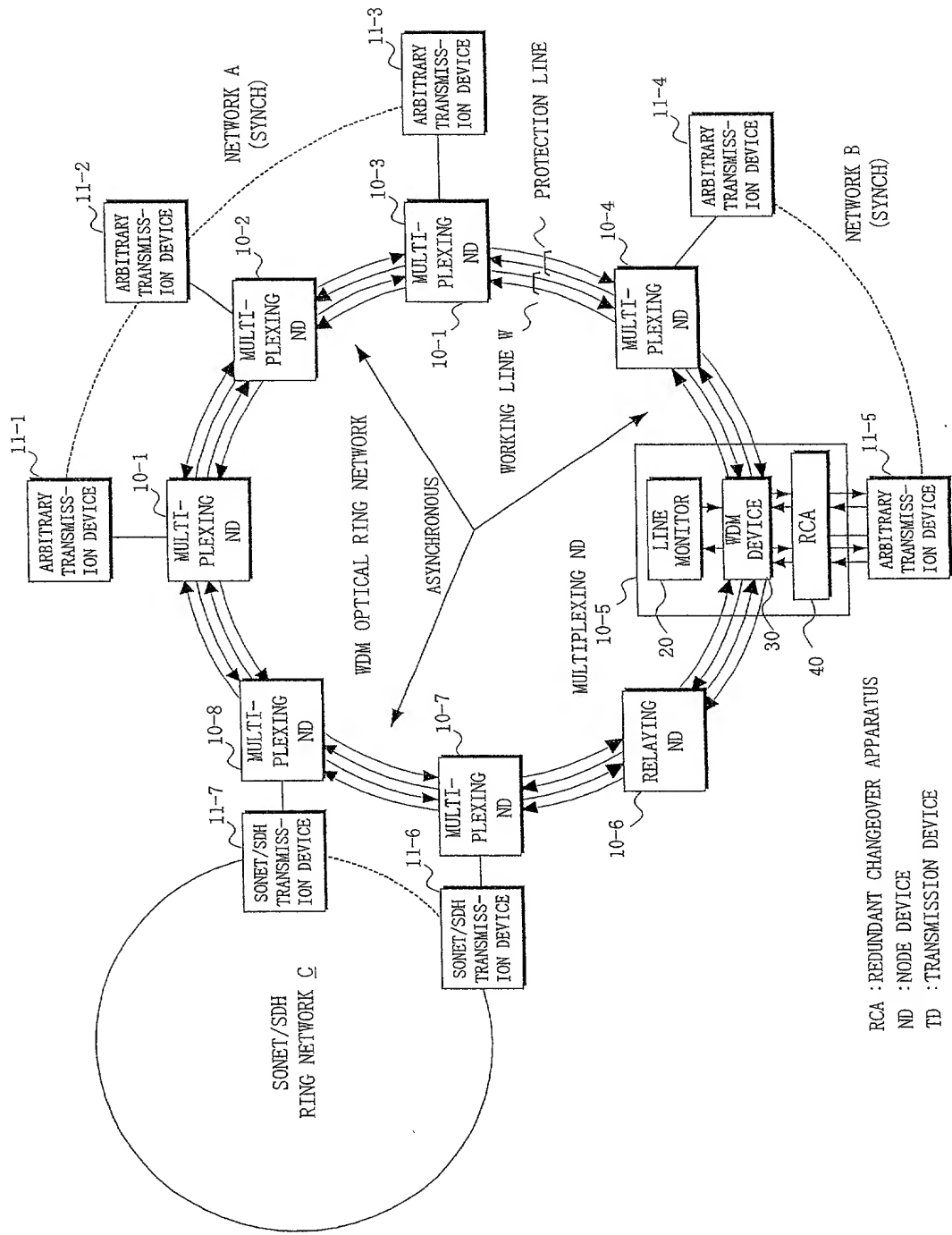
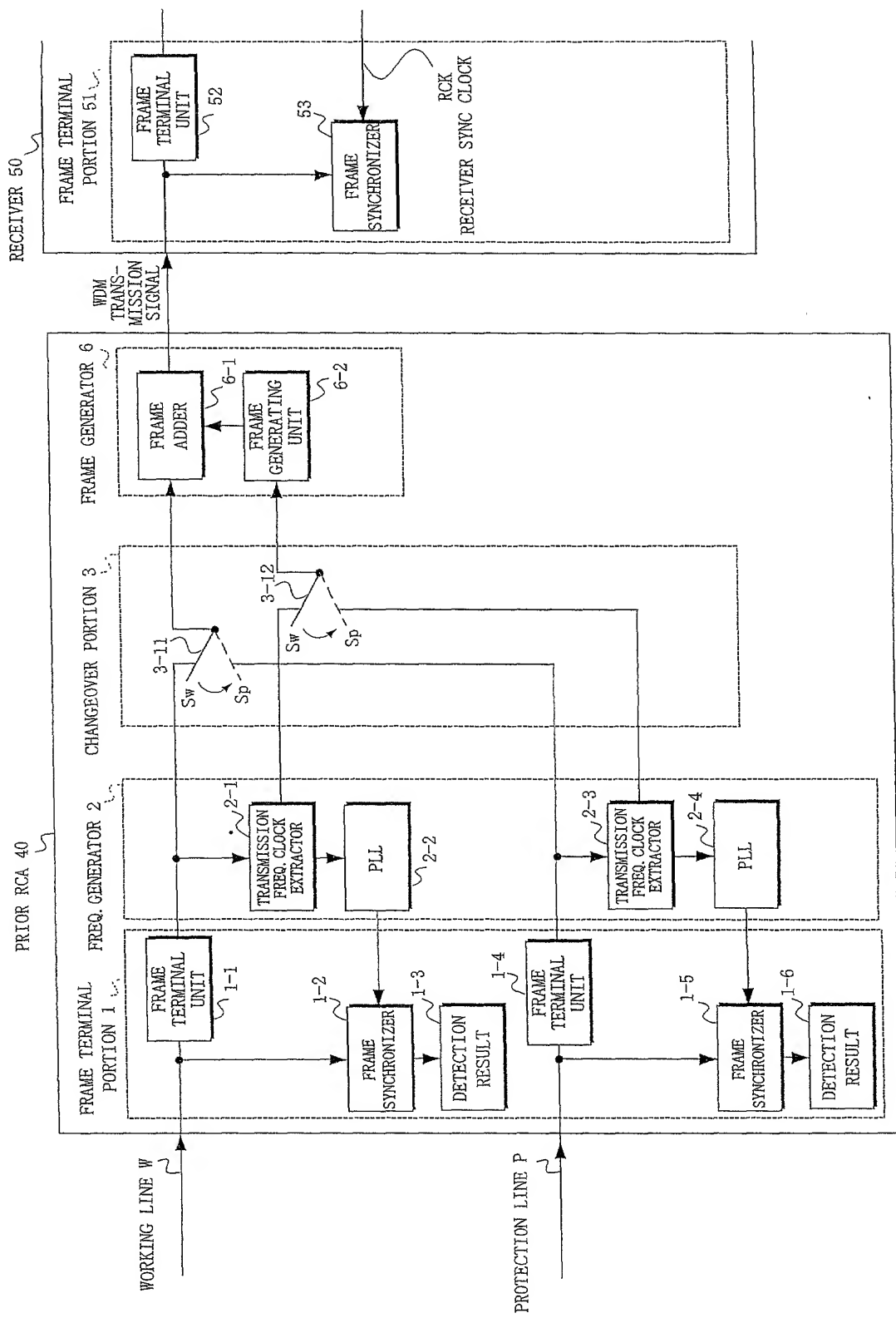


FIG. 15



RCA : REDUNDANT CHANGEOVER APPARATUS
 ND : NODE DEVICE
 TD : TRANSMISSION DEVICE

FIG. 16
PRIOR ART



G. 17B

WORKING CLOCK

WORKING FRAME PHASE

RECEIVER SYNC CLOCK RCK

SYNC

FIG. 17D

PROTECTION CLOCK

	FDM TRANSMISSION		FDMA TRANSMISSION	
	PL (PAY LOAD)	CH	PL (PAY LOAD)	CH
ERROR CORRECTING CODE				
ERROR CORRECTING CODE				

FIG. 18

